

Abstract of the Disclosure

A system of providing movement along an axis. The system includes a beam, a piezo-electric actuator, and a plate. The beam includes a body that generally extends parallel to the axis between first and second ends. The beam also includes a plurality of arms that extend from the body to respective tips that are spaced from the body. The piezo-electric actuator is coupled to the beam and vibrates the beam so as to induce in the beam a wave between the first and second ends. And the plate is biased toward the body of the beam and contiguously engages the respective tips of the plurality of arms.